

FIG.2

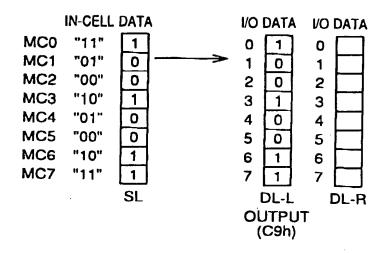


FIG.3

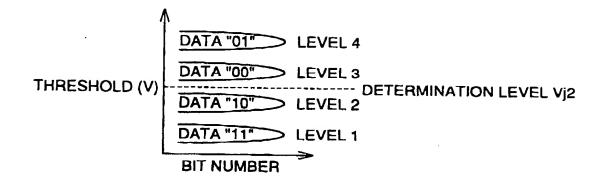


FIG.4

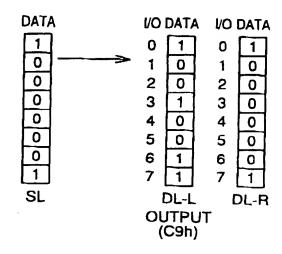


FIG.5

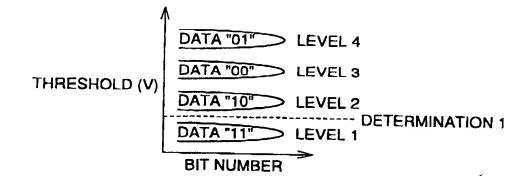
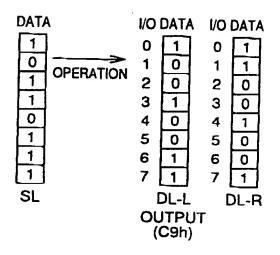
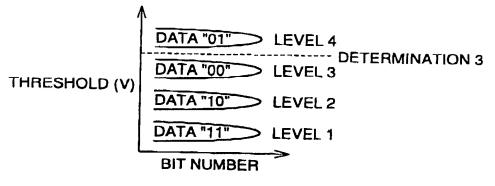
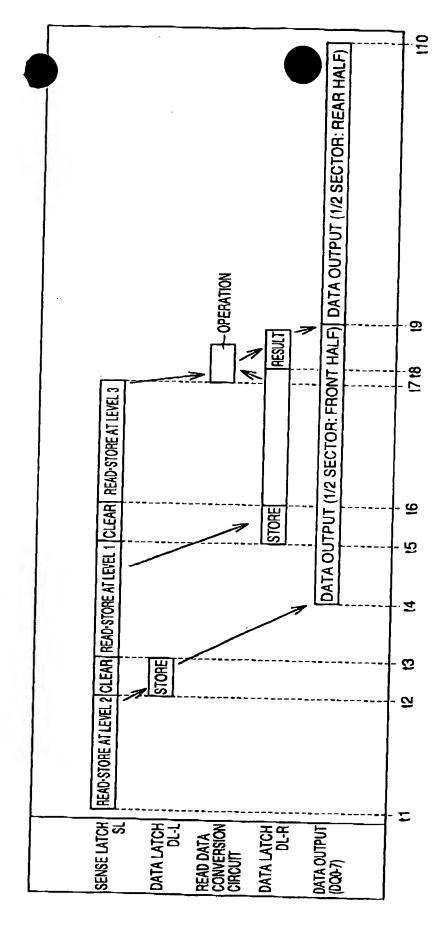


FIG.6





OUTPUT (93h) AFTER DATA OUTPUT FROM DL-L



F1G.8

FIG.9

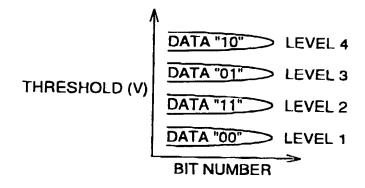


FIG.10

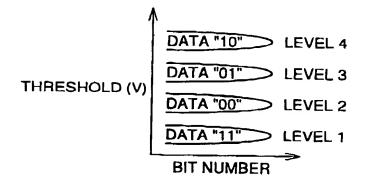


FIG.11

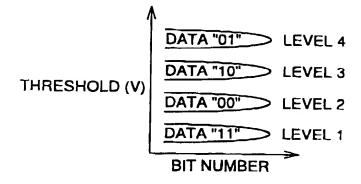


FIG.12

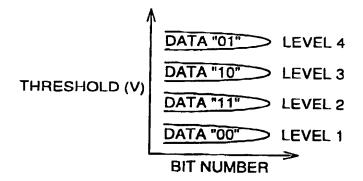


FIG.13

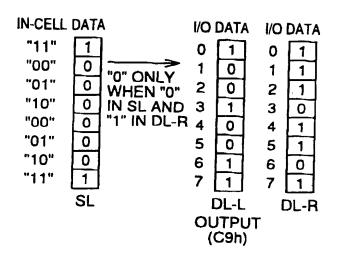
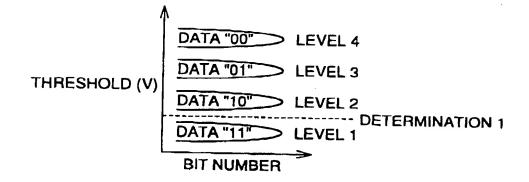


FIG.14



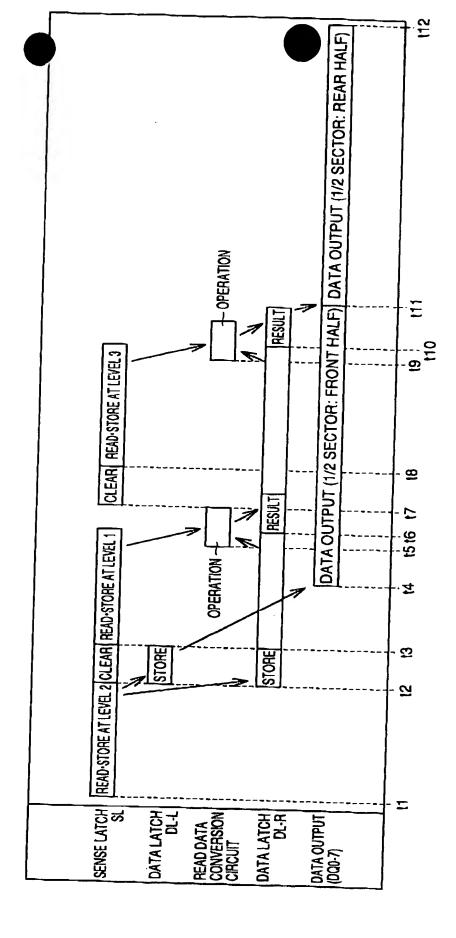


FIG. 15

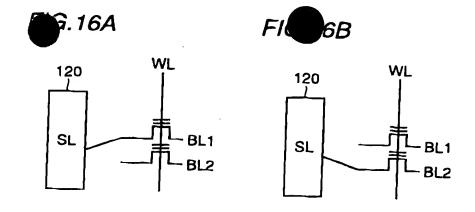


FIG.17

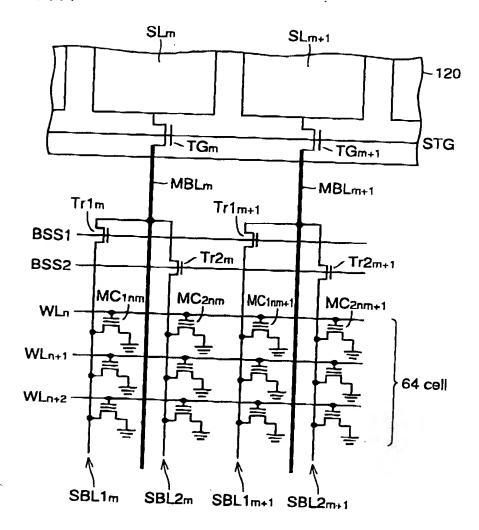


FIG.18

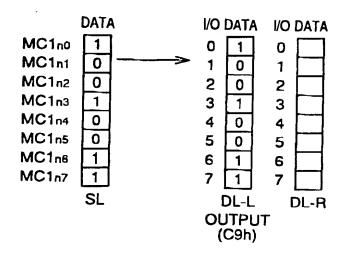


FIG.19

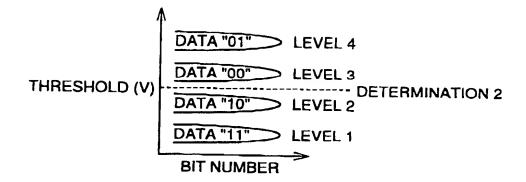


FIG.20

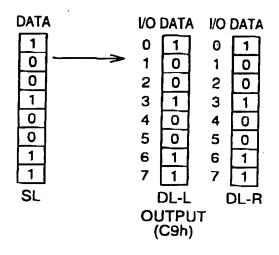
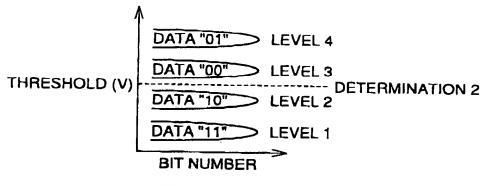


FIG.21



OUTPUT (C9h) AFTER DATA OUTPUT FROM DL-L

FIG.22

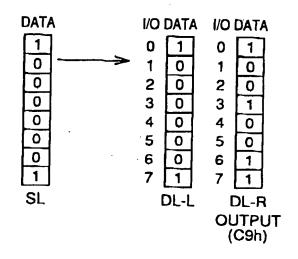


FIG.23

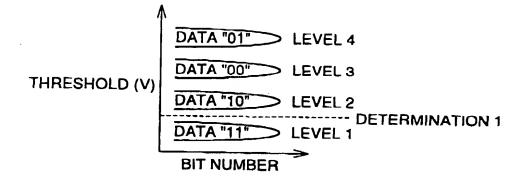
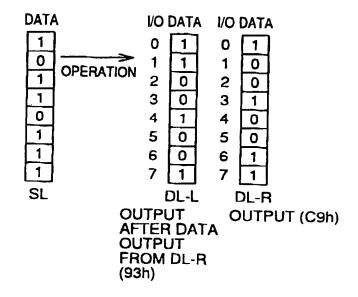


FIG.24



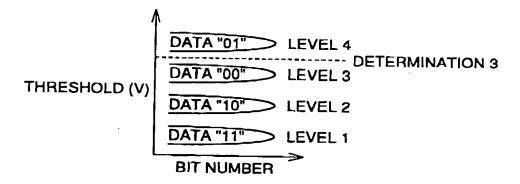


FIG.26

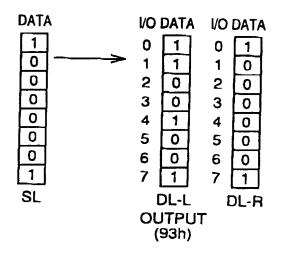


FIG.27

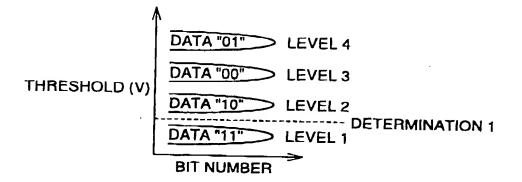


FIG.28

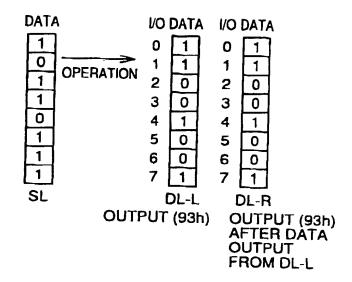
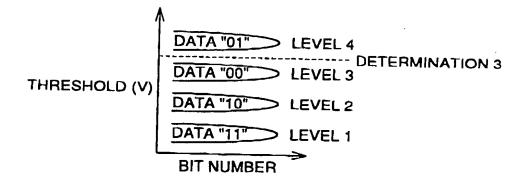


FIG.29



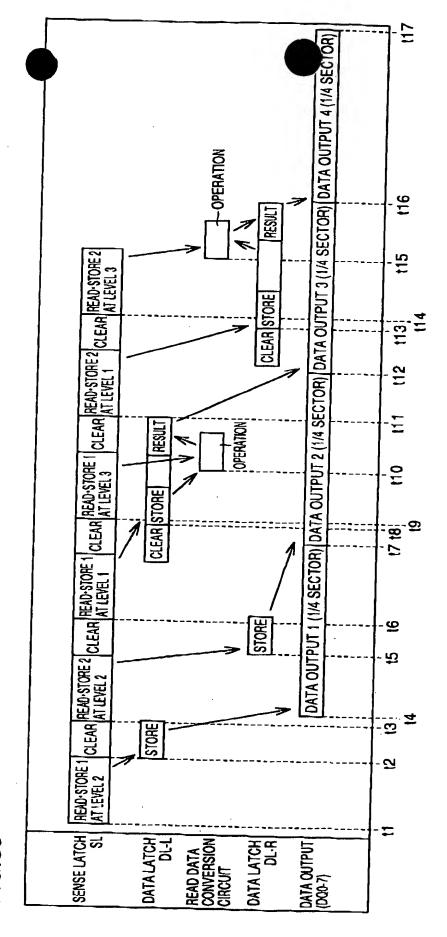


FIG.30

FIG.31

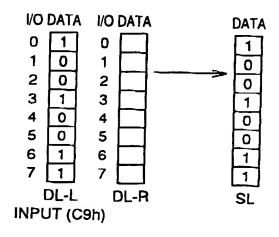


FIG.32

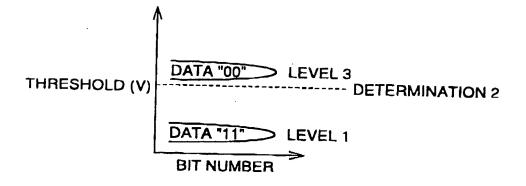


FIG.33

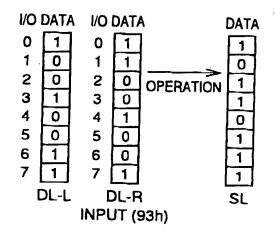


FIG.34

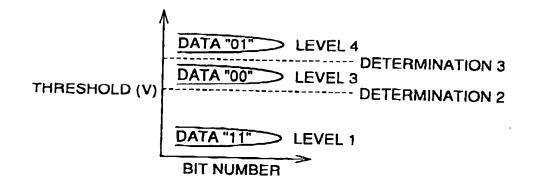


FIG.35

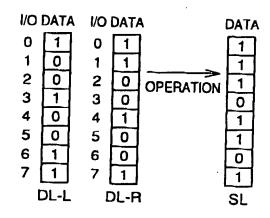
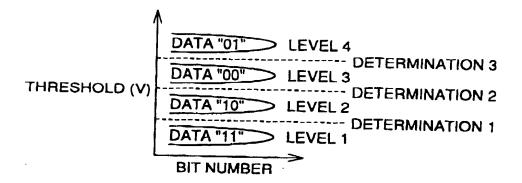


FIG.36



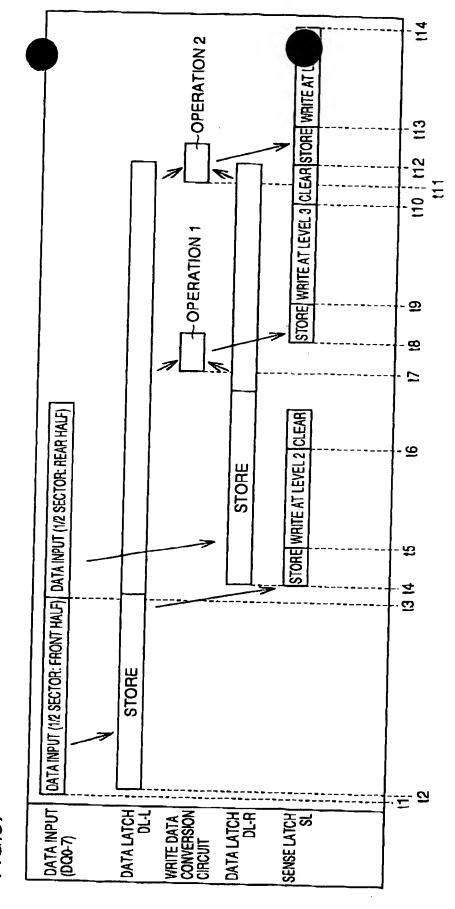


FIG.37

FIG.38

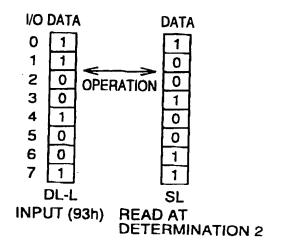


FIG.39

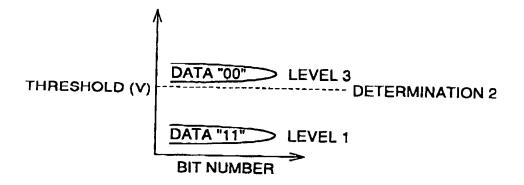


FIG.40

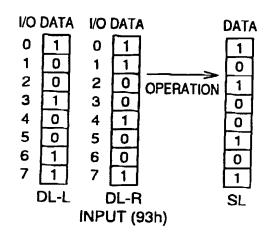
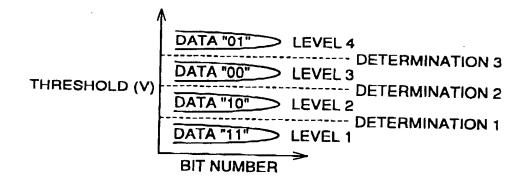
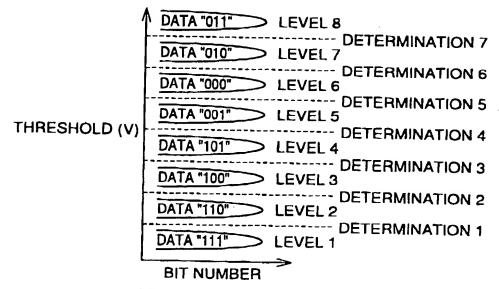


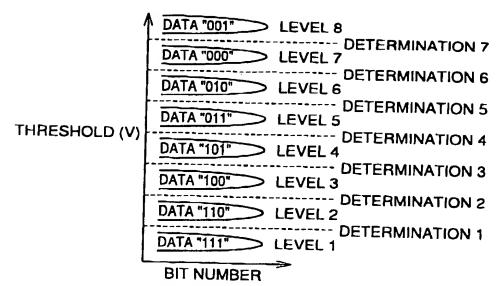
FIG.41





MOST SIGNIFICANT BIT DEFINED AT DETERMINATION 4 INTERMEDIATE BIT DEFINED AT DETERMINATION 2 & 6 LEAST SIGNIFICANT BIT DEFINED AT DETERMINATION 1, 3, 5 & 7

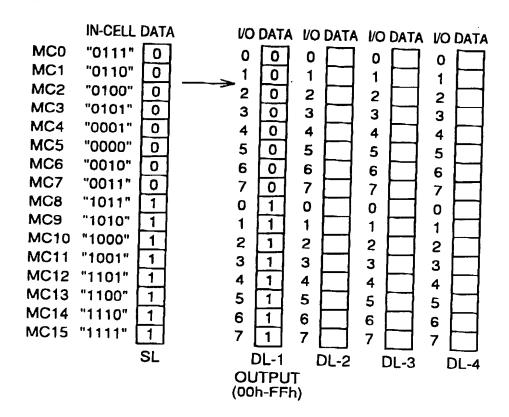
OK



MOST SIGNIFICANT BIT DEFINED AT DETERMINATION 4 "0" & "1" AT LEVELS 3, 4, 5 & 6 AT DETERMINATION 2 & 6 NOT DEFINED LEAST SIGNIFICANT BIT DEFINED AT DETERMINATION 1, 3, 5 & 7

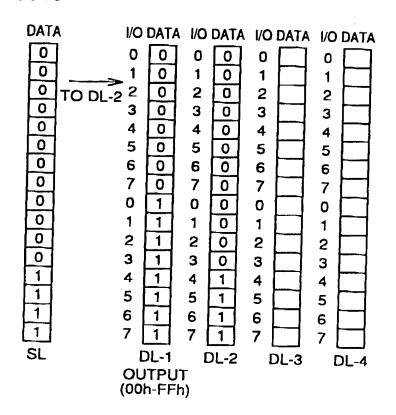
NG

FIG.44



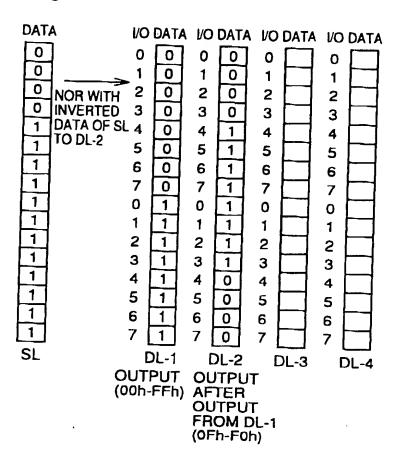
	DATA "0111" LEVEL 16
THRESHOLD (V)	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA 1110" LEVEL 2
	DATA "1111" LEVEL 1
Ĺ	BIT NUMBER

FIG.46

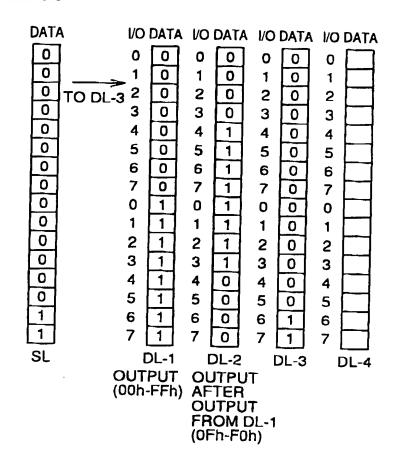


	DATA "0111" LEVEL 16
THRESHOLD (V)	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
Ĭ	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
Ĺ	BIT NUMBER

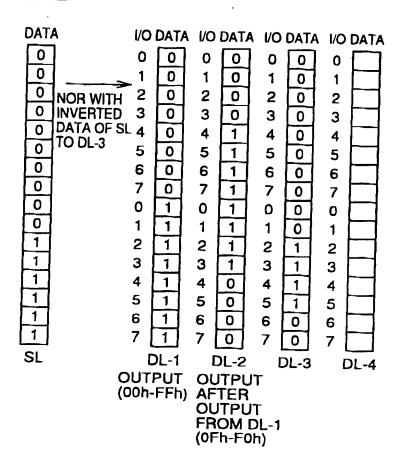
FIG.48

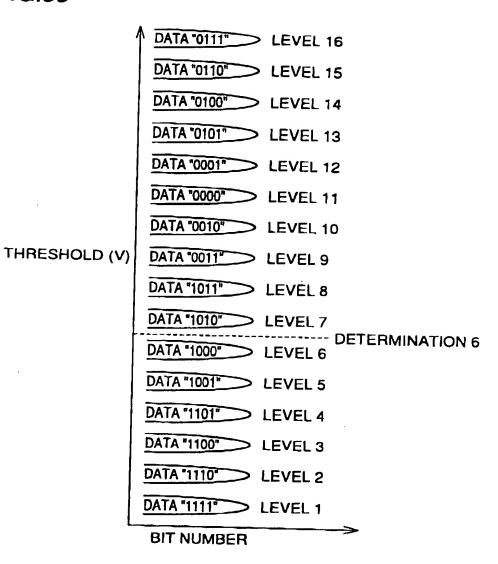


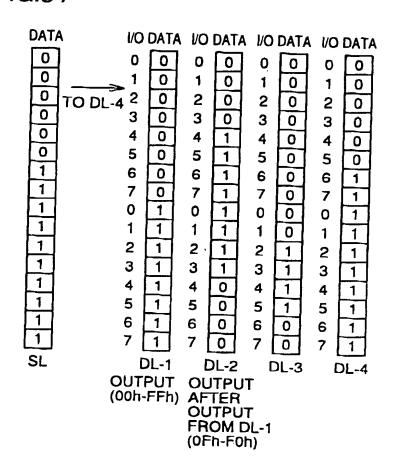
	DATA "0111" LEVEL 16
THRESHOLD (V)	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
<u>.</u>	BIT NUMBER



	•
	DATA "0111" LEVEL 16
THRESHOLD (V)	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
ſ	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
	BIT NUMBER

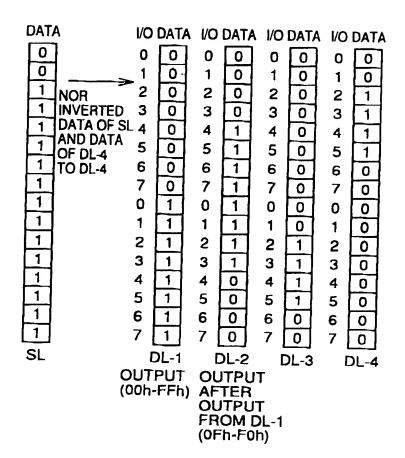






,	
	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA *0000* LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
Ĺ	BIT NUMBER

FIG.56



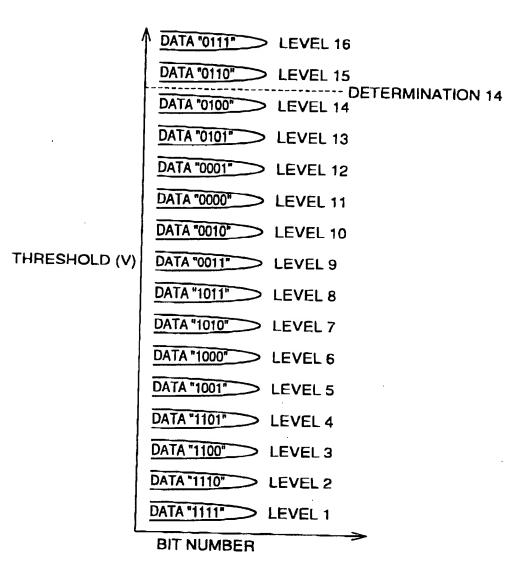
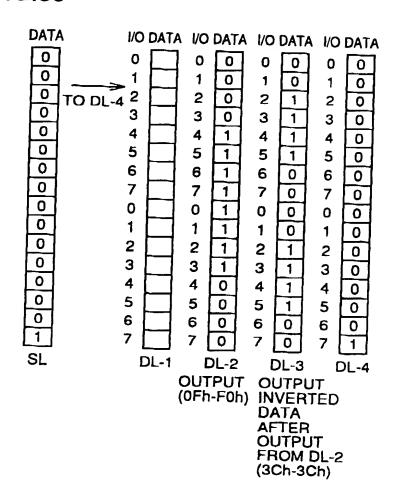


FIG.58

DATA	VO DATA VO DATA VO DATA
	1 0 1 0 1 0 1 2 0 2 0 2 1 2
H	3 0 3 0 3 1 3
	4 0 4 1 4 1 4 5 0 5 1 5 1 5
	6 0 6 1 6 0 6
 - 	7 0 7 1 7 0 7 0 7 0 1 0 0 0 0
 	2 1 2 1 2 1 2 3 1 3 1 3
	4 1 4 0 4 1 4
	5 1 5 0 5 1 5 6 1 6 0 6 0 6
	6 1 6 0 6 0 6 7 1 7 0 7 0 7
SL	DL-1 DL-2 DL-3 DL-4
	OUTPUT OUTPUT OR DATA OF (00h-FFh) AFTER DL-3 AND DL-4 OUTPUT AND STORE FROM DL-1 RESULT IN DL-3
	(OFh-FOh)

	DATA "0111" LEVEL 16					
	DATA "0110" LEVEL 15					
	DATA "0100" LEVEL 14					
	DATA "0101" LEVEL 13					
	DATA "0001" LEVEL 12					
	DATA "0000" LEVEL 11					
	DATA "0010" LEVEL 10					
THRESHOLD (V)	DATA "0011" LEVEL 9					
·	DATA "1011" LEVEL 8					
	DATA "1010" LEVEL 7					
	DATA "1000" LEVEL 6					
	DATA "1001" LEVEL 5					
ļ	DATA "1101" LEVEL 4					
	DATA "1100" LEVEL 3					
·	DATA "1110" LEVEL 2					
	DATA "1111" LEVEL 1					
_	BIT NUMBER					

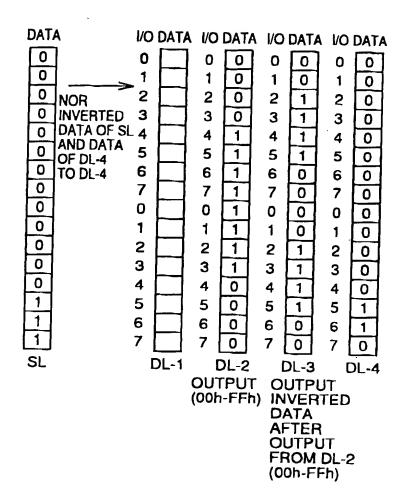
FIG.60



	•
	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
ſ	DATA "1111" LEVEL 1
Ĺ	BIT NUMBER

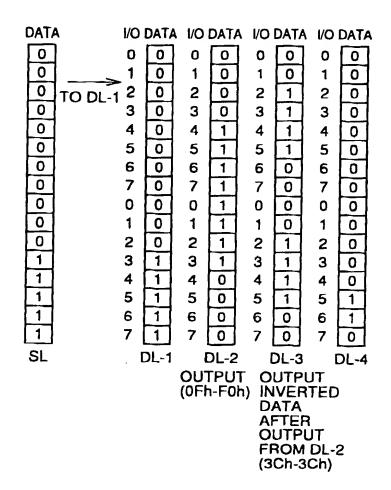
124

FIG.62



	·
	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA 1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
L	BIT NUMBER

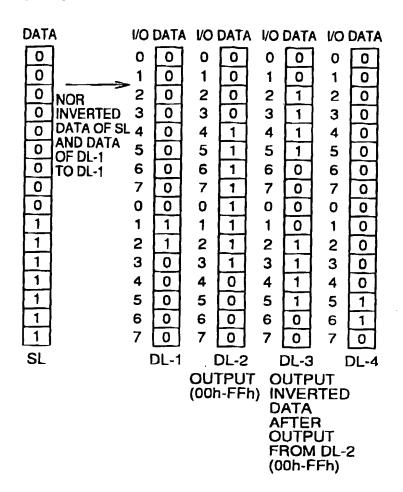
FIG.64



	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
j	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
Ĺ	BIT NUMBER

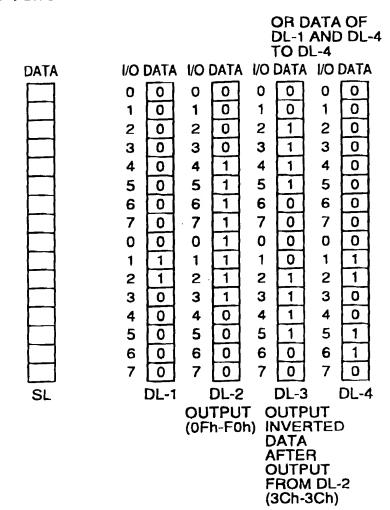
٠.

FIG.66



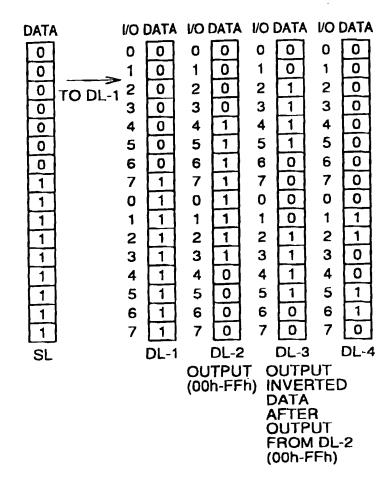
1	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA 1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
	BIT NUMBER

FIG.68



1	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA 1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
•	BIT NUMBER

FIG.70



1	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA 1000 LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA 1110 LEVEL 2
	DATA "1111" LEVEL 1
L	BIT NUMBER



DATA O O NOR O INVERTED O DATA OF S AND DATA OF DL-1 1 1 1 1 1 1 1 1	0 1 2 3	DATA O O O O O O O O O O O O	VO 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	DATA 0 0 0 1 1 1 1 1 0 0 0 0	VO 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	DATA O	1/O 1 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	OATA O
SL		DL-1	OU	DL-2 TPUT h-FFh	0 (i) D A	DL-3 UTP IVEF ATA FTEI	UT RTEC	DL-4
					F	UTP ROM 0h-F	DL-	2

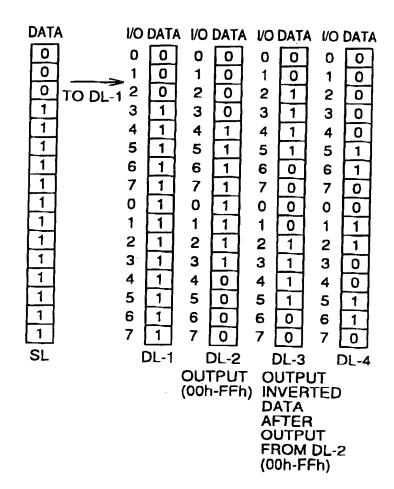
	•
↑	DATA "0111" LEVEL 16
	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA 1011 LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA 1110" LEVEL 2
	DATA "1111" LEVEL 1
•	BIT NUMBER

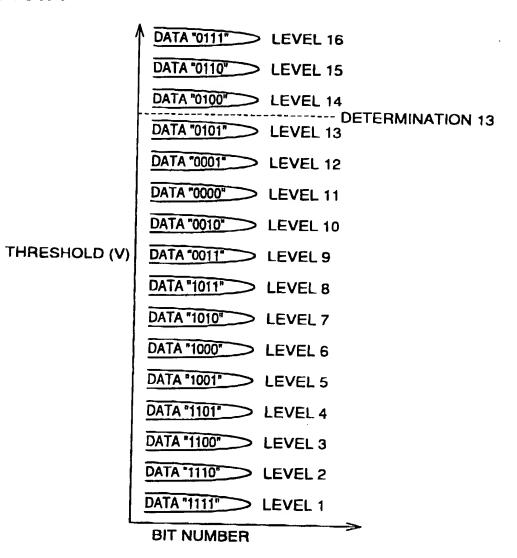


			DAT		F DL	-1 Al	ND D)L-4
DATA	1/0			DATA	1/0	DATA	1/0	DATA
DATA	0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7		VO 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7 OU		0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	0 0 1 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0	0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	0 0 0 0 1 1 0 0 1 1 0 0 0 1
	DATA AFTER							
	OUTPUT							
	FROM DL-2 (3Ch-3Ch)							

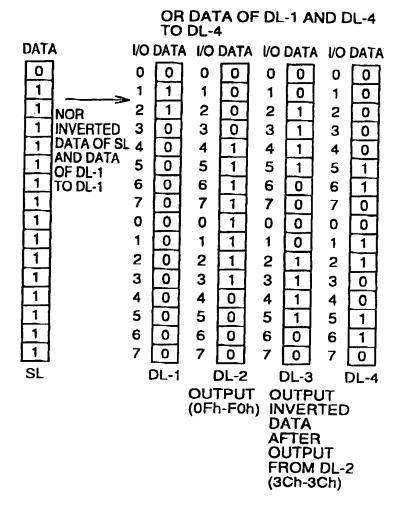
	•
,	DATA "0111" LEVEL 16
THRESHOLD (V)	DATA "0110" LEVEL 15
	DATA *0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
·	BIT NUMBER

FIG.76



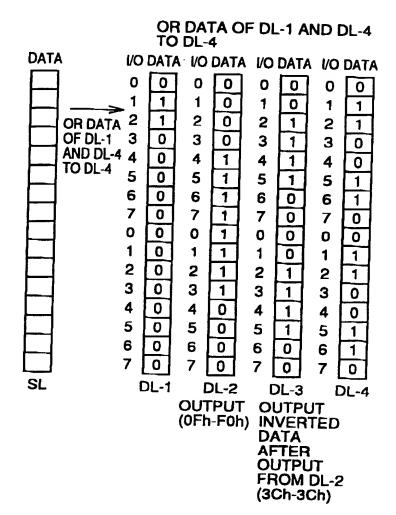






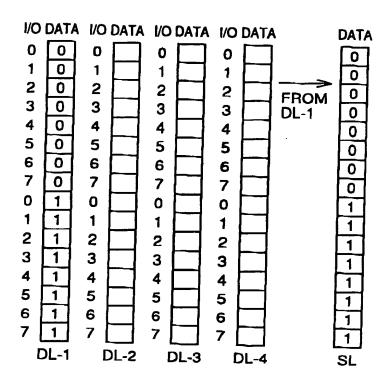
	A DOZIA
	DATA 0111' LEVEL 16
THRESHOLD (V)	DATA "0110" LEVEL 15
	DATA "0100" LEVEL 14
	DATA "0101" LEVEL 13
	DATA "0001" LEVEL 12
	DATA "0000" LEVEL 11
	DATA "0010" LEVEL 10
	DATA "0011" LEVEL 9
	DATA "1011" LEVEL 8
	DATA "1010" LEVEL 7
	DATA "1000" LEVEL 6
	DATA "1001" LEVEL 5
	DATA "1101" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
1	DATA "1111" LEVEL 1
	BIT NUMBER





THRESHOLD (V)	DATA "0111" LEVEL 16 DATA "0110" LEVEL 15 DATA "0100" LEVEL 14 DATA "0101" LEVEL 13 DATA "0000" LEVEL 12 DATA "0000" LEVEL 11 DATA "0010" LEVEL 10 DATA "0011" LEVEL 9 DATA "1011" LEVEL 8 DATA "1010" LEVEL 5 DATA "1001" LEVEL 4 DATA "1110" LEVEL 3 DATA "1110" LEVEL 3
	DATA "1111" LEVEL 1
	BIT NUMBER

FIG.82



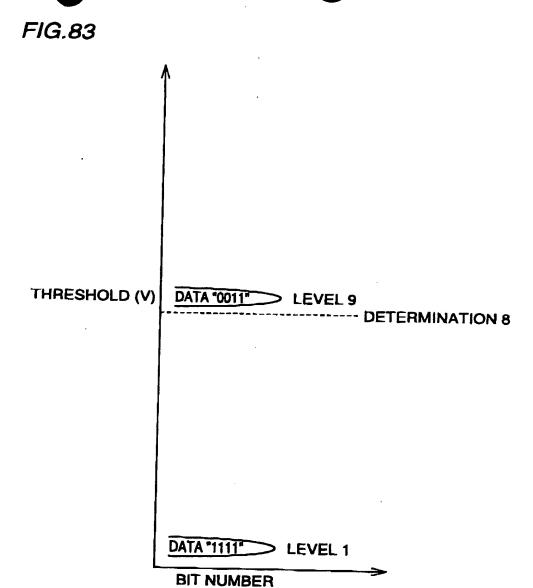
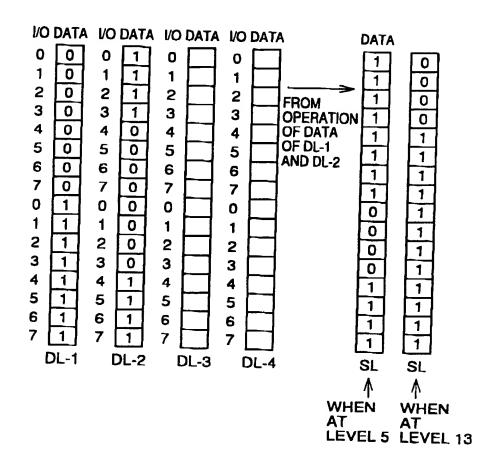
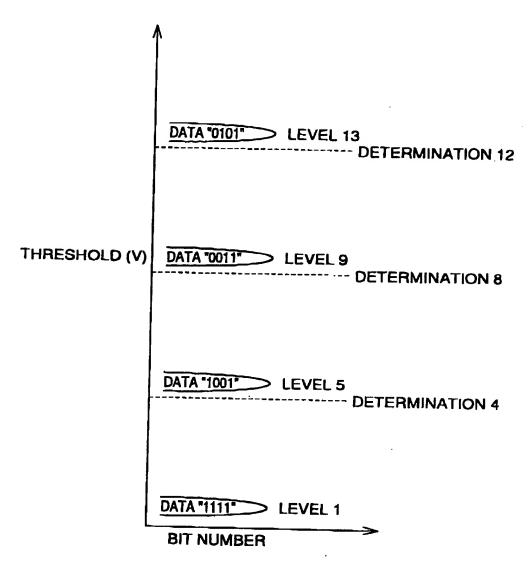


FIG.84







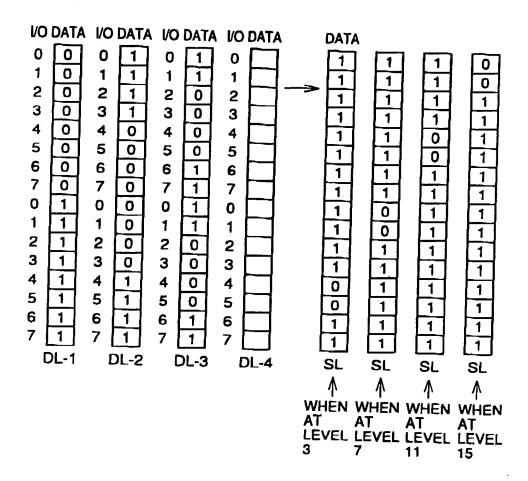


FIG.87

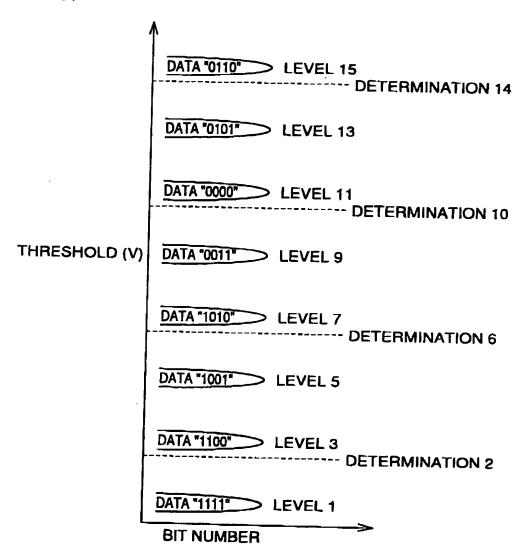
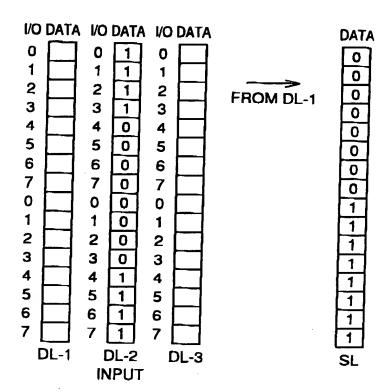
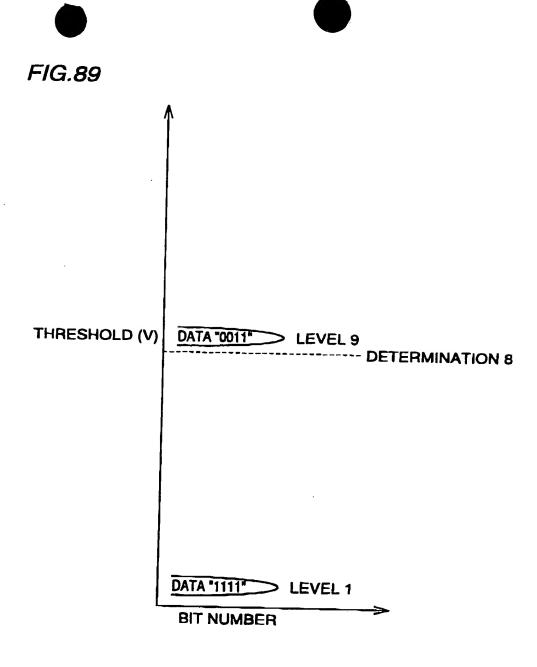


FIG.88







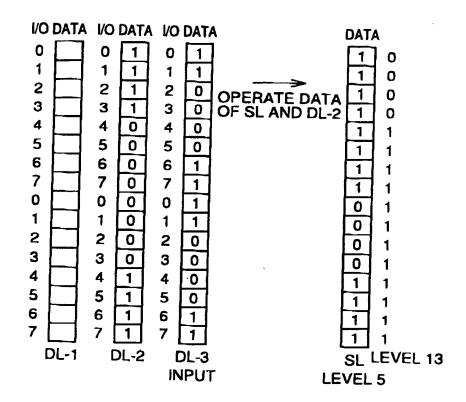


FIG.91

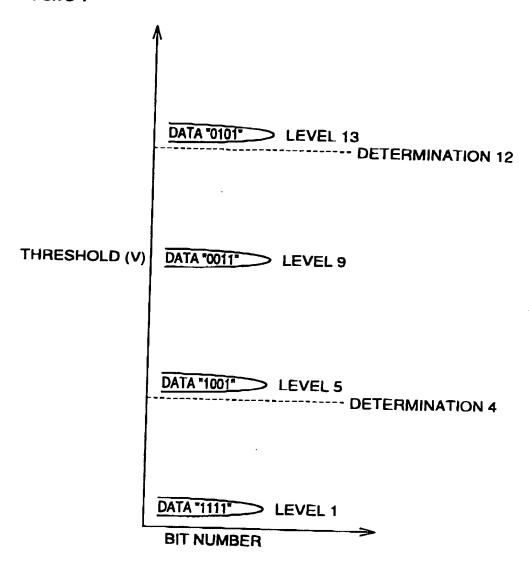


FIG.92

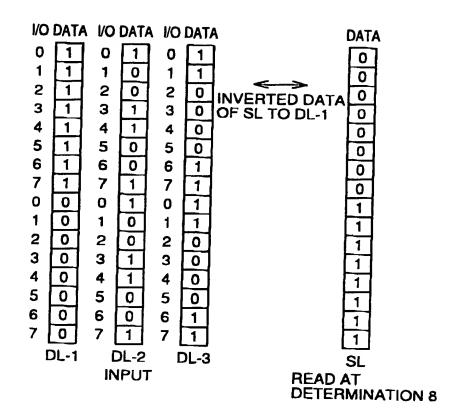


FIG.93

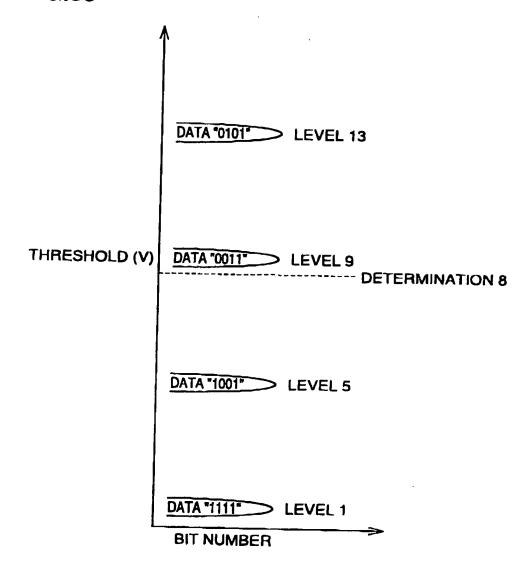


FIG.94

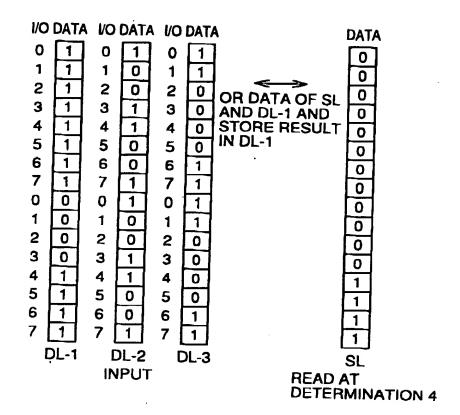


FIG.95

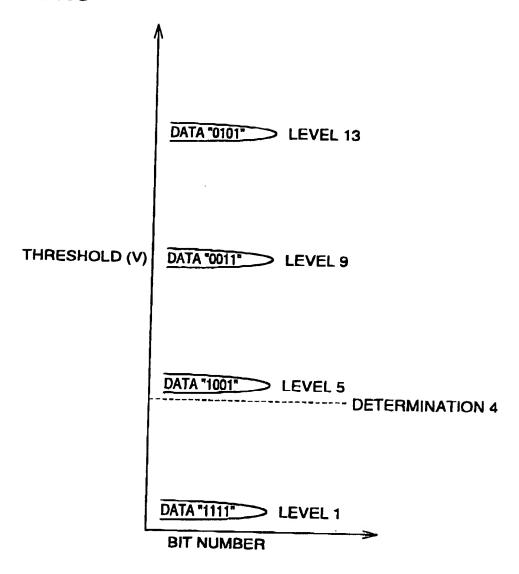


FIG.96

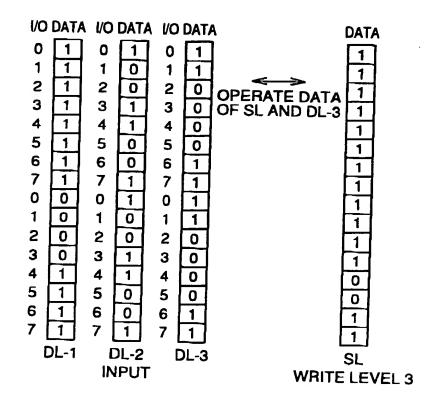
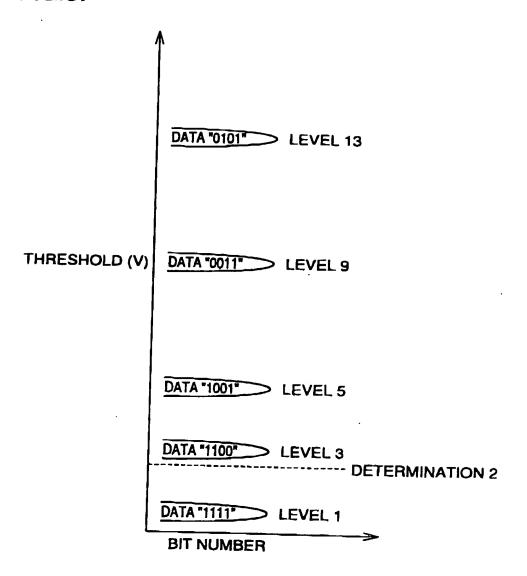


FIG.97



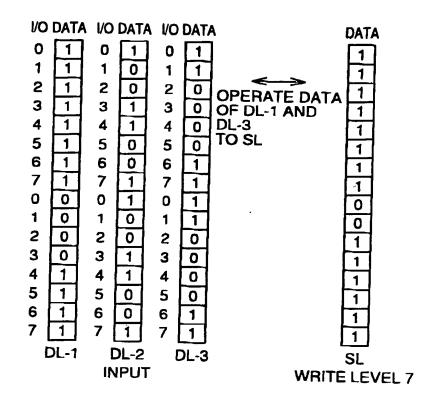


FIG.99

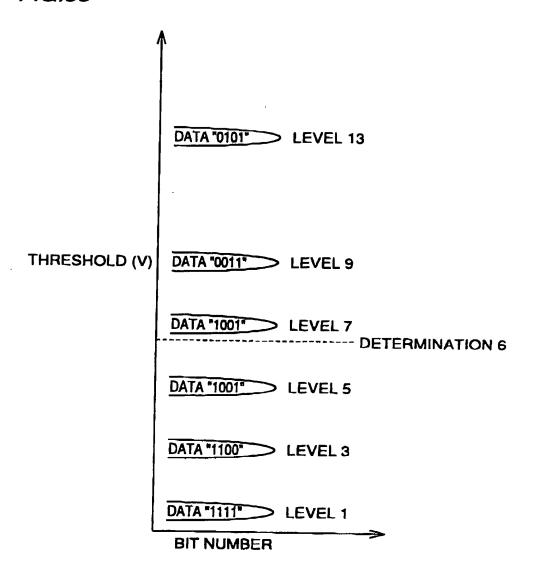
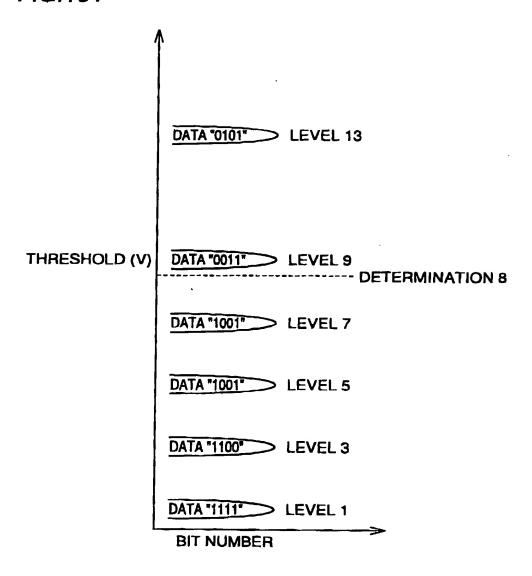
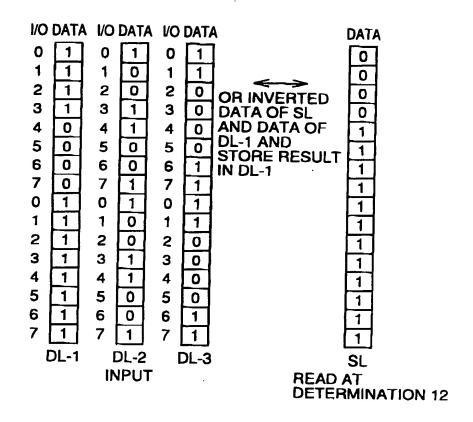
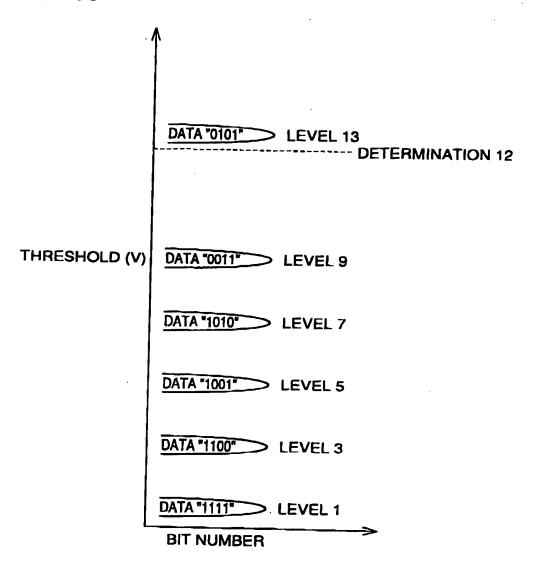


FIG.100

VO DATA VO DATA VO DATA 0 0 0 1 0 1 1 0 1 0 1 1 2 0 2 0 2 0 3 0 3 1 3 0 4 0 4 1 4 0 5 0 5 0 5 0 6 0 6 0 6 1 7 0 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0 1 1 1 0 1 1 1 2 1 2 0 2 0 3 1 3 1 3 0 4 1 4 1 4 0 5 1 5 0 5 0	DATA O O O TRANSFER FROM SL TO DL-1 O O O 1 1 1 1 1 1 1 1
DL-1 DL-2 DL-3 INPUT	SL READ AT DETERMINATION 8
	· PETEUMINATION 8

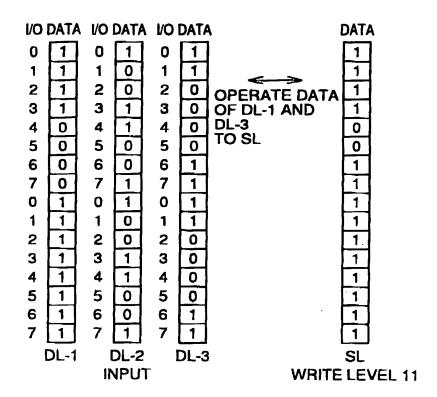


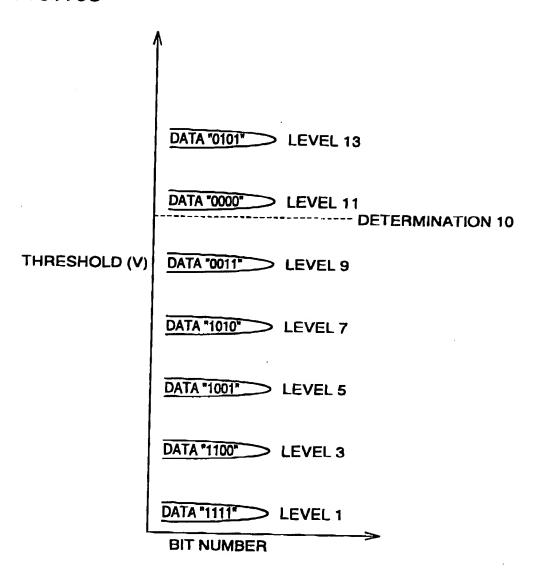














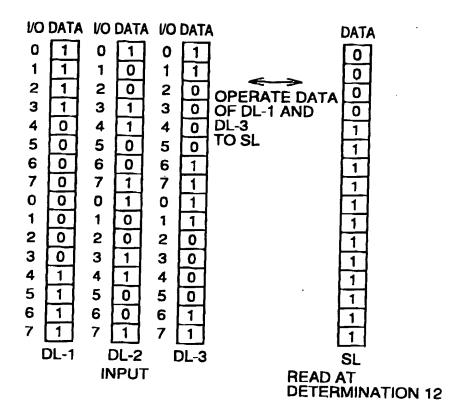
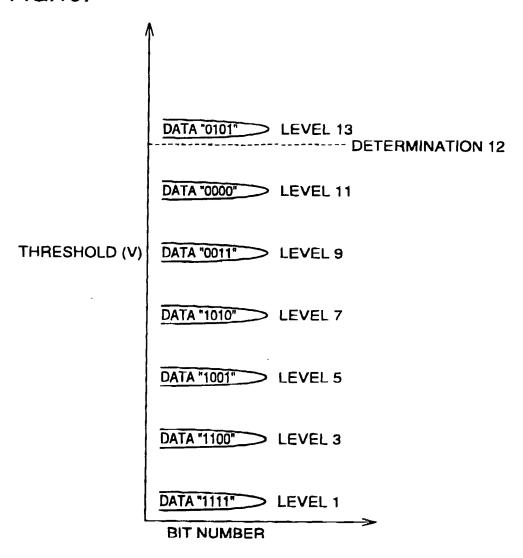


FIG. 107





I/O DATA I/O DATA 0 0 1 1 1 0 2 2 0 3 3 1 4 4 1 5 0 6 0 7 7 1 0 1 1 0 1 2 2 0 3 1 4 4 1 1 5 0 6 0 7 6 6 0 7 1	0 1 1 1 2 0 3 0 4 0 5 0 6 1 7 1 0 1 1 1 2 0 3 0 4 0 5 0 6 1	DATA O
6 6 0 7 7 1 DL-1 DL-2	6 1 7 1 DL-3	<u> </u>
INPUT		WRITE LEVEL 15

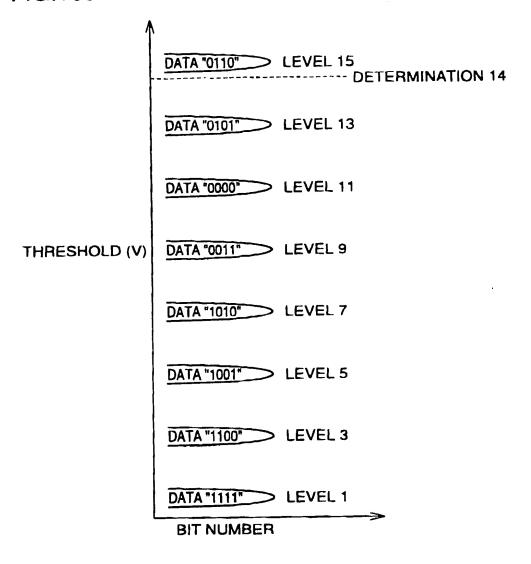
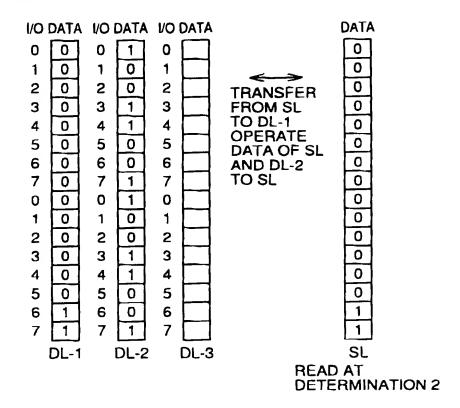






FIG.110







,	^
	DATA "0110" LEVEL 15
	DATA "0101" LEVEL 13
THRESHOLD (V)	DATA "0000" LEVEL 11
	DATA "0011" LEVEL 9
	DATA "1010" LEVEL 7
	DATA "1001" LEVEL 5
	DATA "1100" LEVEL 3 DETERMINATION 2
	DATA "1111" LEVEL 1
L	BIT NUMBER



FIG.112

0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	DATA 0 0 0 0 0 0 0 0 0 1 1 DL-1	0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	DATA 1 0 0 1 1 0 0 1 1 0 0 1 1 DL-2	I/O DATA 0	DATA 1 1 1 1 1 1 1 1 1 1 1 1 SL
	DL-1				SL WRITE LEVEL 2



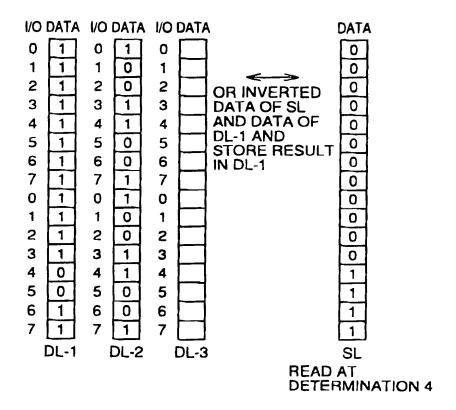


1	N
	DATA "0110" LEVEL 15
	DATA "0101" LEVEL 13
	DATA "0000" LEVEL 11
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1010" LEVEL 7
	DATA "1001" LEVEL 5
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
Į.	BIT NUMBER





FIG.114







DATA "0110" LEVEL 13

DATA "0000" LEVEL 11

THRESHOLD (V)

DATA "0011" LEVEL 9

DATA "1010" LEVEL 7

DATA "1001" LEVEL 5

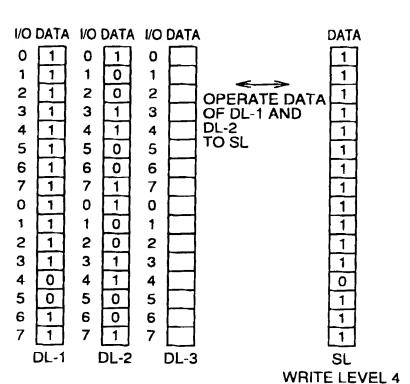
DATA "1100" LEVEL 3

DATA "1110" LEVEL 2

DATA "1111" LEVEL 1

BIT NUMBER

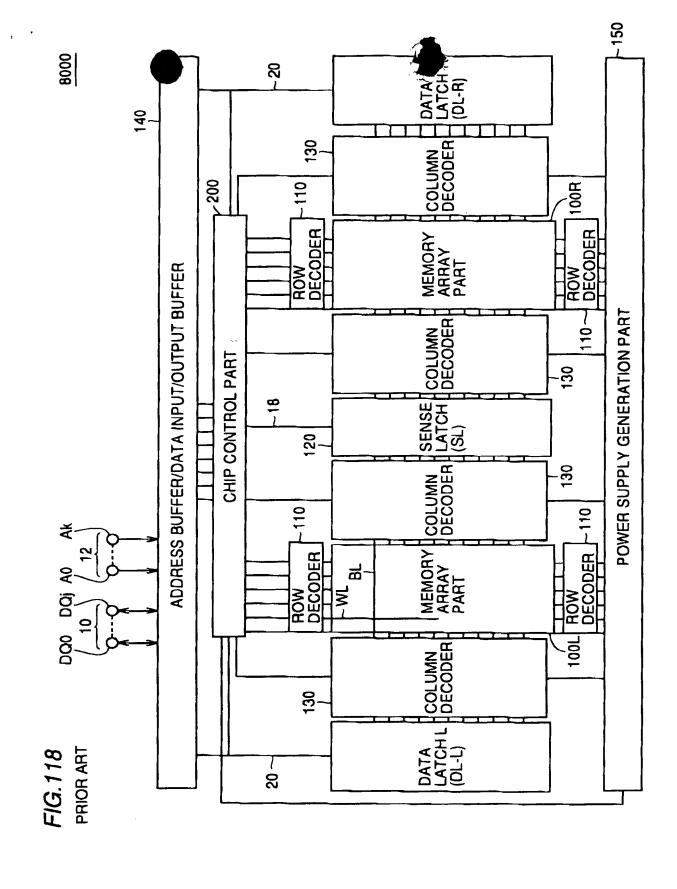








	∱
	DATA "0110" LEVEL 15
	DATA "0101" LEVEL 13
	DATA "0000" LEVEL 11
THRESHOLD (V)	DATA "0011" LEVEL 9
	DATA "1010" LEVEL 7
	DATA "1001" LEVEL 5
	DATA "1001" LEVEL 4
	DATA "1100" LEVEL 3
	DATA "1110" LEVEL 2
	DATA "1111" LEVEL 1
L	BIT NUMBER



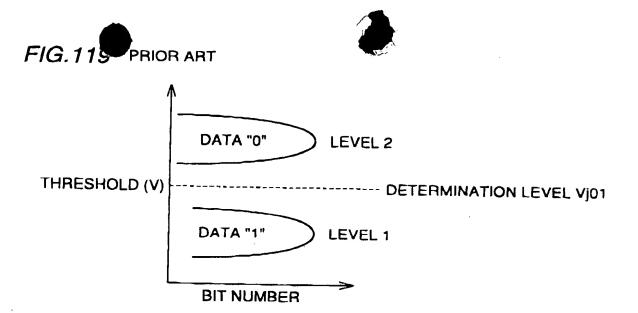
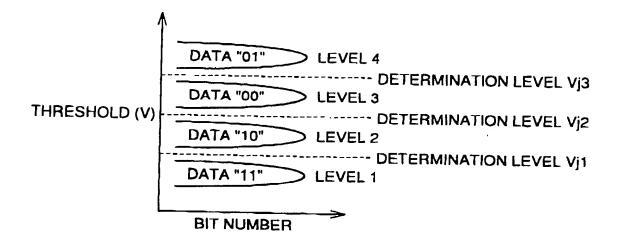


FIG. 120 PRIOR ART





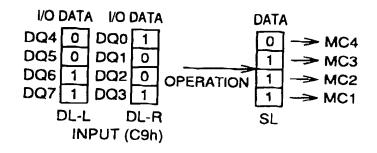


FIG. 122 PRIOR ART

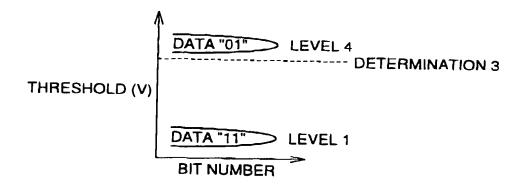




FIG. 123 PRIOR ART

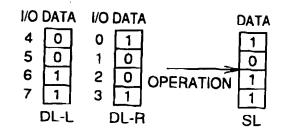


FIG. 124 PRIOR ART

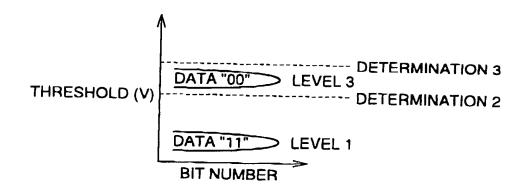




FIG. 125 PRIOR ART

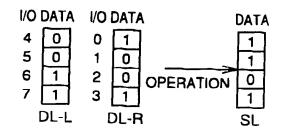


FIG. 126 PRIOR ART

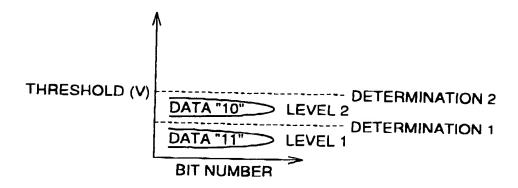




FIG.127 PRIOR ART

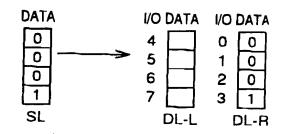


FIG.128 PRIOR ART

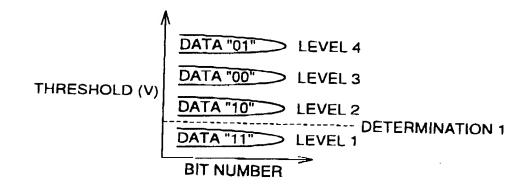




FIG.129 PRIOR ART

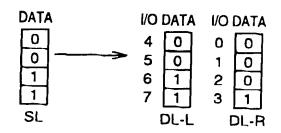


FIG. 130 PRIOR ART

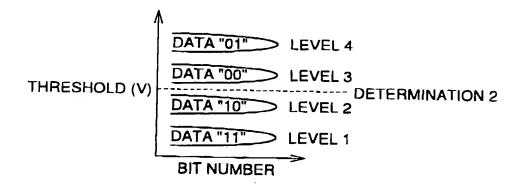






FIG. 131 PRIOR ART

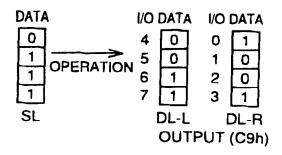


FIG. 132 PRIOR ART

